

CLAIMS

1. A hot work tool steel excellent in resistance to melting loss, characterized by having a composition in wt %: C: 0.10 to 0.35 %, Si: less than 0.80 %, Mn: 3.0 % or less, Cr: 2.0 % or more and less than 7.0 %, $1/2W + Mo$: 0.3 to 5.0 %, N: more than 0.05 % and 0.50 % or less, C + N: 0.20 to 0.60 % (with a proviso that C/N: 6 or less), O: 0.0100 % or less, P: 0.050 % or less, Al: 0.050 % or less, and the balance: substantially Fe.

2. The hot work tool steel according to claim 1, characterized by further containing, in wt %, V: 0.01 % or more and less than 0.5 %.

3. The hot work tool steel according to claim 1 or claim 2, characterized by further containing at least one of Ni: 2.0 % or less and Co: 5.0 % or less.

4. The hot work tool steel according to any of claims 1 through 3, characterized by further containing at least one of Ti: 1.0 % or less, Ta: 1.0 % or less, B: 0.010 % or less, and Cu: 1.0 % or less.

5. The hot work tool steel according to any of claims 1 through 4, characterized by further containing at least one of S: 0.050 % or less, Ca: 0.0100 % or less, Se: 0.0100 % or less, Te: 0.0100 % or less, Zr: 0.0100 % or less, Mg: 0.0100 % or less,

and Y: 0.100 % or less.

6. A mold member excellent in resistance to melting loss, characterized by being formed of the hot work tool steel according to any of claims 1 through 5.

7. A mold member excellent in resistance to melting loss, characterized by being formed of the hot work tool steel according to any of claims 1 through 5 and having a surface layer which has, because of modification thereof by a surface treatment, a higher resistance to Al-melting loss than that of a base metal.